

**PATENT COOPERATION TREATY**From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

**PCT****WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY  
(PCT Rule 43bis.1)**Date of mailing  
(day/month/year) see form PCT/ISA/210 (second sheet)Applicant's or agent's file reference  
see form PCT/ISA/220**FOR FURTHER ACTION**  
See paragraph 2 belowInternational application No.  
PCT/US2004/036619International filing date (day/month/year)  
03.11.2004Priority date (day/month/year)  
17.03.2004International Patent Classification (IPC) or both national classification and IPC  
B29C45/33, B29C33/44Applicant  
D-M-E COMPANY**1. This opinion contains indications relating to the following items:**

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☒ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

**2. FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1b/s(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

**3. For further details, see notes to Form PCT/ISA/220.**

Name and mailing address of the ISA:



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Form (PCT/ISA/237) (Cover Sheet) (January 2004)

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**International application No.  
PCT/US2004/036619

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**Box No. I Basis of the opinion**

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1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material:
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material:
    - ☐ in written format
    - ☐ in computer readable form
  - c. time of filing/furnishing:
    - ☐ contained in the international application as filed.
    - ☐ filed together with the international application in computer readable form.
    - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**International application No.  
PCT/US2004/036619

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**Box No. V Reasoned statement under Rule 43b/s.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

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**1. Statement**

Novelty (N)	Yes: Claims	2-6
	No: Claims	1
Inventive step (IS)	Yes: Claims	2-6
	No: Claims	1
Industrial applicability (IA)	Yes: Claims	1-6
	No: Claims	

**2. Citations and explanations****see separate sheet**

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**Box No. VII Certain defects in the international application**

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The following defects in the form or contents of the international application have been noted:

**see separate sheet**

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING  
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/US2004/036619**Re Item V****Reasoned statement with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**

1. Reference is made to the following document:

D1: JP-A-06008286

- 2.1 Document D1, cf. figure 4 and paragraph 2, discloses a mold assembly comprising: a) first and second mating mold components, one of the first and second mating mold components comprising a primary core element and the other of the first and second mating mold components comprising a primary cavity element, the first and second mating components meeting on parting line faces thereof; b) a slide member for carrying a supplemental core element, the slide member supported by and moveable relative to a first mating mold component, the slide member having an opening therein; and an actuating pin for engaging the opening in the slide member to effect movement thereof with movement of the first and second mating mold components relative to one another, the actuating pin being removably retained in a support opening in the parting line face of the second mating mold component by means accessible from the second mating mold component parting line face and being supported in the second mating mold component at an angle oblique to the second mating mold component parting line face.

Therefore, the subject-matter of claim 1 is not new and claim 1 does not meet the requirements of Article 33(2) PCT.

- 3.1 The combination of the features of dependent claim 2 is neither known from, nor rendered obvious by, the available prior art. The problem underlying claim 2 can be considered as to reduce the force necessary to mount or dismount the actuating pin. Since the combination of features of claim 2 is neither known nor suggested by the available prior art, claim 2 meets the requirements of Article 33 PCT.
- 3.2 Claims 3-6 are dependent on claim 2, for which reason they also meet the requirements of Article 33 PCT.

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING  
AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/US2004/036619**Re Item VII****Certain defects in the international application**

1. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.
2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).